

HEAVY EQUIPMENT OPERATOR, PRE-APPRENTICE

A student who has completed the Job Corps Heavy Equipment Operator program is equipped with the skills to contribute to the workplace as a valued employee from day one. Competence in academic and vocational skills is required for graduation. In addition, Job Corps students learn employability and technological skills. To complete his or her Heavy Equipment Operator training, a student must master skills in these categories:

SAFETY

Demonstrate an awareness of potential hazards when working with all types of equipment; wear proper safety clothing on the job site including personal protective equipment; demonstrate an understanding of machine and operator limitations; follow prescribed procedures with closed pressurized systems (water and hydraulic); demonstrate the ability to follow fire safety rules; comply with OSHA HAZMAT regulations where applicable; demonstrate the ability to keep tools and equipment out of the path of other people working on the job and the ability to accept responsibility for the safety of other workers; identify the locations of all first aid equipment and materials; report safety issues to supervisor regarding accidents (incident reports).

GENERAL SUBJECTS

Describe the history of the operating engineers' craft; identify and practice construction trade safety; identify and explain functions of common machine components and machine work patterns and cycle time; demonstrate the ability to interpret basic grade and stake information.

FORKLIFT (OPTIONAL)

Explain and perform pre-start and shutdown procedures; perform daily preventive maintenance; explain control functions and perform coordinated control operations; follow work pattern and operate equipment in a safe manner; load and unload materials; transport materials to designated area.

CRANE OILER (OPTIONAL)

Perform walk-around inspection; demonstrate knowledge and use of logbook entries for maintenance and repairs; demonstrate knowledge and application of crane oiler safety; perform preventive maintenance and minor repairs such as batteries, hydraulic hoses, etc.; identify all fluids, filters and their locations; inspect machine for proper fluid levels and check for leaks; identify all lubrication points and perform greasing procedures; perform routine oil filter changes; perform startup and shutdown procedures on carrier and crane; demonstrate knowledge of and perform all crane hand signals; demonstrate and perform all crane flagging procedures; safely maneuver and demonstrate crane setup procedures; demonstrate knowledge and understanding of load charts; safely perform rigging procedures including multipart and single-line hook changes; perform dead-section and jib installation; perform retraction procedures.